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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/788,420	02/21/2001	Oh Nam Kwon	8733.388.00	5851	
30827 7:	590 07/12/2005		EXAM	INER	
MCKENNA LONG & ALDRIDGE LLP 1900 K STREET, NW			WANG, GI	WANG, GEORGE Y	
WASHINGTO			ART UNIT	PAPER NUMBER	
			2871		
			DATE MAILED: 07/12/2009	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	09/788,420	KWON ET AL.	On
Office Action Summary	Examiner	Art Unit	
•	George Y. Wang	2871	
The MAILING DATE of this communication		•	ess
Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REI THE MAILING DATE OF THIS COMMUNICATIO Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a If NO period for reply is specified above, the maximum statutory per Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a r reply within the statutory minimum of thir od will apply and will expire SIX (6) MON tute. cause the application to become AE	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this comr SANDONED (35 U.S.C. 6 133)	nunication.
Status			
1) Responsive to communication(s) filed on 28	8 March 2005.		
	his action is non-final.		
3) Since this application is in condition for allow closed in accordance with the practice under the condition of the cond	•	-	nerits is
Disposition of Claims			
4)⊠ Claim(s) <u>1-9 and 11-26</u> is/are pending in the	e application.		
4a) Of the above claim(s) 11-26 is/are withdo			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-9</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and	d/or election requirement.		
Application Papers			
9) The specification is objected to by the Exam	iner.		
10)⊠ The drawing(s) filed on 21 February 2001 is/		objected to by the Examiner	r.
Applicant may not request that any objection to t		•	
Replacement drawing sheet(s) including the corr	ection is required if the drawing	(s) is objected to. See 37 CFR	1.121(d).
11) ☐ The oath or declaration is objected to by the	Examiner. Note the attached	Office Action or form PTO	-152.
Priority under 35 U.S.C. § 119			
12)⊠ Acknowledgment is made of a claim for forei a)⊠ All b)□ Some * c)□ None of:		119(a)-(d) or (f).	
1. Certified copies of the priority docume			
2. Certified copies of the priority docume			
3. Copies of the certified copies of the pr		received in this National Sta	age
application from the International Bure			
* See the attached detailed Office action for a li	si of the certified copies not	receivea.	
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) Interview S	ummary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date	EQ.)
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 	6) Other:	formal Patent Application (PTO-15	D Z)
S. Patent and Trademark Office			

Page 2

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on March 28, 2005 has been entered.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to

Art Unit: 2871

consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

- 3. Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's Admission of Prior Art (AAPA) in view of Rho et al. (U.S. Patent No. 6,057,896, from hereinafter "Rho").
- 4. As to claims 1 and 8-9, AAPA discloses a liquid crystal display (LCD) device (fig. 1e) having a substrate (10), a first conductive layer (12) on the substrate, a first insulating layer (16) on the first conductive layer, a semiconductor layer (18) on the first insulating layer, a second conductive layer (20) on the first insulating layer, a third conductive layer (22, 24) on the second conductive layer, a second insulating layer (26) on the third conductive layer, the second insulating layer having a hole exposing a portion of the third conductive layer, a fourth conductive layer (28) on the second insulating layer and electrically contacting the third conductive layer, and a fifth conductive layer (30) between the third and fourth conductive layers.

However, AAPA fails to specifically disclose a sixth conductive layer between the exposed portion of the third conductive layer and the fourth conductive layer, and between the first conductive layer and the fifth conductive layer.

Rho discloses an LCD having a sixth conductive layer (fig. 6, ref. 90, 31) between the exposed portion of the third conductive layer and the fourth conductive layer, and between the first conductive layer and the fifth conductive layer.

Application/Control Number: 09/788,420 Page 4

Art Unit: 2871

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have a sixth conductive layer between the exposed portion of the third conductive layer and the fourth conductive layer, and between the first conductive layer and the fifth conductive layer since one would be motivated to provide displays with difference storage capacitors (col. 9, lines 27-58) as well as to ultimately reduce coupling capacitance (col. 2, lines 8-10).

- 5. Regarding claims 2-3, AAPA discloses an LCD device as recited above where the first conductive layer includes aluminum metal (pg. 3, line 18-19).
- 6. As per claim 4, AAPA discloses an LCD device as recited above where the second conductive layer includes an impurity-doped semiconductor (12).
- 7. As to claims 5-6, AAPA discloses an LCD device as recited above where the third conductive layer has a first and second parts that include metal (20) and in between the first and second parts is where the semiconductor is etched (pg. 3, line 11).
- 8. Regarding claim 7, AAPA discloses an LCD device as recited above where the fourth conductive layer includes a transparent electrode (pg. 3, lines 15-17).

Response to Arguments

Application/Control Number: 09/788,420 Page 5

Art Unit: 2871

9. Applicant's arguments with respect to claims 1-9 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to George Y. Wang whose telephone number is 571-272-2304. The examiner can normally be reached on M-F, 8 am - 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert H. Kim can be reached on 571-272-2293. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

gw July 10, 2005 DUNGT. NGUYEN
PRIMARY EXAMINER